Title (en)
ADAPTIVE MODELING OF SECONDARY PATH IN AN ACTIVE NOISE CONTROL SYSTEM

Title (de)
ADAPTIVE MODELLIERUNG EINES SEKUNDÄREN PFADS IN EINEM SYSTEM ZUR AKTIVEN RAUSCHUNTERDRÜCKUNG

Title (fr)
MODÉLISATION ADAPTATIVE DE TRAJET SECONDAIRE DANS UN SYSTÈME DE RÉGULATION DE BRUIT ACTIF

Publication
EP 3437090 A1 20190206 (EN)

Application
EP 17716715 A 20170328

Priority
• US 201615085204 A 20160330
• US 2017024547 W 20170328

Abstract (en)
[origin: US9704471B1] The technology described herein can be embodied in a computer implemented method that includes detecting, by one or more processing devices, onset of an unstable condition in an active noise control system. The method also includes obtaining, responsive to detecting the onset of the unstable condition, updated filter coefficients for a system-identification filter configured to represent a transfer function of a secondary path of the active noise control system. The updated filter coefficients are generated using a set of multiple subband adaptive filters, wherein filter coefficients of each subband adaptive filter in the set are configured to adapt to changes in a corresponding portion of a frequency range associated with potential unstable conditions in the active noise control system. The method also includes programming the system identification filter with the updated coefficients to affect operation of the active noise control system.

IPC 8 full level
G10K 11/178 (2006.01); **F01N 1/06** (2006.01)

CPC (source: EP US)
F01N 1/065 (2013.01 - EP US); **G10K 11/17817** (2017.12 - EP US); **G10K 11/17825** (2017.12 - EP US); **G10K 11/17833** (2017.12 - EP US); **G10K 11/17854** (2017.12 - EP US); **G10K 11/17857** (2017.12 - EP US); **G10K 11/17881** (2017.12 - EP US); G10K 2210/1081 (2013.01 - US); G10K 2210/3018 (2013.01 - US); G10K 2210/3028 (2013.01 - US)

Citation (search report)
See references of WO 2017172774A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 9704471 B1 20170711; CN 109074800 A 20181221; EP 3437090 A1 20190206; EP 3437090 B1 20221207; JP 2019511878 A 20190425; JP 6625765 B2 20191225; US 10056065 B2 20180821; US 2017287461 A1 20171005; WO 2017172774 A1 20171005

DOCDB simple family (application)
US 201615085204 A 20160330; CN 201780021672 A 20170328; EP 17716715 A 20170328; JP 2018551189 A 20170328; US 2017024547 W 20170328; US 201715616332 A 20170607